CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/KRIDL/W.No.14/MS pipe/2018-19

21.05.2018

TEST REPORT ON M.S PIPE

* Customer	:	Asst. Executive Engineer, Project Division, BBMP, Bangalore.
* Agency	:	Technical Manager, KRIDL, Bangalore.
* Name of work	:	Improvements and repair works in parks in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/EE/PD/WO/18/2017-18 Dated: 05.01.2018
* Samples ID	:	MS Pipe 38mm Dia
Date of Testing	:	21.05.2018

Sl.No	Description	Result
1	Thickness	2.08 mm
2	Inner Diameter	38.28 mm
3	Outer Diameter	42.44 mm
4	Weight / Meter	1.885 kg

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

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Job No.: CTCE/BBMP/KRIDL/W.No.14/Fencing/2018-19

21.05.2018

TEST REPORT ON CHAIN LINK FENCING WIRE

* Customer	:	**Asst. Executive Engineer,** Project Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of work	:	Improvements and repair works in parks in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/EE/PD/WO/18/2017-18 Dated: 05.01.2018
* Samples ID	:	Chain link fencing- 8th gauge
Date of Testing	:	21.05.2018

Sl.No	Description	Result
1	Diameter	4.08 mm
2	Internal Spacing	50 mm X 50 mm
3	Weight / Meter (1m x 1m)	4.180 Kg

*Information is furnished by the Customer/Representative.

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KRIDL/W.No.14/CSR-04/633h/SAND-Gradation/2018-19

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

02.06.2018

Customer	:	Asst. Executive Engineer, Project Division, BBMP, Bangalore.
Agency	:	Technical Manager, KRIDL, Bangalore.
Name of Work	:	Improvements and repair works in parks in Ward No.14, BBMP, Bangalore.
Reference	:	BBMP/EE/PD/WO/18/2017-18 Dated: 05.01.2018
Sample ID	:	Fine Aggregates (Sand Plasterting)
Technical Reference	:	IS : 1542 - 1992 (RA-2014)
Sample Received on	:	31.05.2018
Date of Testing	:	02.06.2018

Total Wt. of Aggregates in gms 1000

Is Sieved Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS : 1542 - 1992 (RA-2014) Clause 5.1
10	100	100
4.75	99.20	95-100
2.36	97.20	95-100
1.18	95.70	90-100
600 Micron	89.70	80-100
300 Micron	44.10	20-65
150 Micron	11.80	0-15

Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

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EE/BBMP/KRIDL/W.No.14/CSR-04/633h/Kerb stone/2018-19

02.06.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

Customer	:	**Asst. Executive Engineer,** Project Division, BBMP, Bangalore.
Agency	:	**Technical Manager,** KRIDL, Bangalore.
Name of work	:	Improvements and repair works in parks in Ward No.14, BBMP, Bangalore.
Reference	:	BBMP/EE/PD/WO/18/2017-18 Dated: 05.01.2018
Sample ID	:	Kerb sone
Grade of Concrete	:	M_{15}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	29.05.2018
Date of Testing	:	02.06.2018

Sl No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.390	2514.25	1.58	0.955	23.25	11.84	12.79	13.40	16.75
2	50.00	80.00	0.399	2540.11	1.60	0.957	24.60	12.53	13.53	12.95	16.18
3	50.00	81.00	0.398	2502.47	1.62	0.959	26.85	13.67	14.77	14.16	17.70

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Job No.: CTCE/BBMP/KRIDL/W.No.14/Pavers/2018-19

TEST REPORT ON PHYSICAL TESTS OF PAVER BLOCKS

04.06.2018

* Customer	:	**Asst. Executive Engineer,** Project Division, BBMP, Bangalore.
* Agency	:	**Technical Manager,** KRIDL, Bangalore.
* Name of work	:	Improvements and repair works in parks in Ward No.14, BBMP, Bangalore.
* Reference	:	BBMP/EE/PD/WO/18/2017-18 Dated: 05.01.2018
* Samples ID	:	Paver Blocks
Technical Reference	:	IS 15658-2006 (RA-2011)
Date of Testing	:	04.06.2018

The results of the tests conducted on the Paver Blocks sample are as follows:

1.THICKNESS:

Sl No	Identification	Thickness (mm)	Average thickness(mm)
1	PB1	75.3	75.25
2	PB2	75.2	
3	PB3	75.25	

2.COMPRESSIVE STRENGTH:

Sl No	Identification	Plan area (mm2)	Maximum Load (kN)	Apparent Compressive strength (N/mm2)	Correction factor (Table 5 of Annex D of IS:15658) - Arrised block	Corrected Compressive strength (N/mm2)
1	PB1	24200	829.6	34.28	1.12	38.39
2	PB2	24200	836.5	34.57	1.12	38.71
3	PB3	24200	849.6	35.11	1.12	39.32

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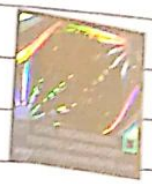
Ref. No: CTCE/BBMP/KRIDL/W.No.14/CSR-04/633h/Bricks/2018-19

09.05.2018

TEST REPORT ON WATER ABSORPTION OF BRICKS

*Customer	:	**Asst. Executive Engineer,** Project Division, BBMP, Bangalore.
*Agency	:	**Technical Manager,** KRIDL, Bangalore.
*Name of the work	:	Improvements and repair works in parks in Ward No.14, BBMP, Bangalore.
*Reference	:	BBMP/EE/PD/WO/18/2017-18 Dated: 05.01.2018
*Sample ID	:	Bricks
Technical Reference	:	IS: 3495(Part-2)- 1992 (RA-2011)
Sample Received on	:	05.05.2018
Date of Testing	:	09.05.2018



Sl.No	Size of Bricks in mm	Dry weight in gms	Wet weight in gms	Water Abosorption in %	Average Water Absorption in %	Allowable Water absorption as per IS: 1077:1995 Clause 7.2)
1	220x100x75	2968	3285	10.68	10.57	Not exceeding 20%
2	220x100x75	2972	3292	10.77		
3	220x100x75	2973	3296	10.86		
4	220x100x75	2989	3295	10.24		
5	220x100x75	2985	3292	10.28		

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